

more than one-half of the shad caught in the Hudson River, but does receive a large portion of what is caught in the Connecticut River, and possibly Fulton Market in 1879 received a larger portion than the year previous.

**84.—DESCRIPTION OF A CALIFORNIA SALMON (*ONCORHYNCHUS* SP.) FOUND IN ONE OF THE RIVERS OF NEW ZEALAND, AND IDENTIFIED BY DR. T. H. BEAN.**

**By S. C. FARR,**

*Secretary and Treasurer of the Canterbury Acclimatization Society.\**

Many unavoidable causes have prevented me from addressing you at an earlier date on the question relating to the fish caught in one of our rivers, although I have been very anxious to have the question set at rest if possible.

The following is the description as near as I could collect from the fish about eight hours after it was taken, and the photograph was taken from a sketch I made some time after it had been in spirits: Length, one foot ten and a half inches; girth at the shoulder, one foot three inches; weight, 8 pounds; color, olive green on the back, the sides lighter, the belly silvery white, the sheen of the scales very bright, intermingled with irregular spots of a brownish olive tint both above and below the lateral line. Teeth very small but numerous, five rows on the upper surface of the mouth; the central one is short, having only two in each row, turning outwards alternately to each side. There is one row on each side of the under jaw, while there are more to be seen on the tongue. The scales in the center of the side are about one-eighth of an inch in diameter and cycloidal. The caudal fin has 19 rays; anal, 15; dorsal, 13; pectoral, 16; and ventral, 9. The color of the flesh is a bright pink.

I trust the above will sufficiently describe the fish to enable you to decide its genus in such a way as will remove all questionable doubts.

CANTERBURY ACCLIMATIZATION SOCIETY,

*Christchurch, April 20, 1882.*

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\*The letter here printed was addressed to the United States Commissioner of Fish and Fisheries, and was accompanied by a photograph, which was made from a sketch taken from the preserved fish some time after its immersion in spirits. This photograph, while it may readily be recognized as representing a species of *Oncorhynchus*, would be more valuable had it been taken from the fish itself, and with the dorsal and anal fins so extended as to show the number of rays; the size of the scales, also, could then have been determined. The enumeration of the fin rays by Mr. Farr, however, and his remarks about the teeth, taken in connection with the photograph, leave no doubt in my mind that the captured fish is a California salmon, belonging to the species introduced in 1874 (or 1875?), and subsequent years, by the United States Fish Commission. Mr. Farr's photograph bears the date July 10, 1880.

—TARLETON H. BEAN.